(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 13 May 2004 (13.05.2004)

PCT

(10) International Publication Number WO 2004/040658 A1

(51) International Patent Classification7:

H01L 29/788

(21) International Application Number:

PCT/EP2003/050764

(22) International Filing Date: 28 October 2003 (28.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0225175.9

30 October 2002 (30.10.2002)

(71) Applicant (for all designated States except US): TOUMAZ TECHNOLOGY LIMITED [GB/GB]; The Innovation Centre, Building D5, Culham Science Centre, Abingdon OX14 3DB (GB).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): LANDE, Tor, Sverre [NO/NO]; Bakerovnsgrenda 62, N-1353 Baerums Verk (NO).
- (74) Agent: LIND, Robert; Marks & Clerk, 4220 Nash Court, Oxford Business Park South, Oxford OX4 2RU (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

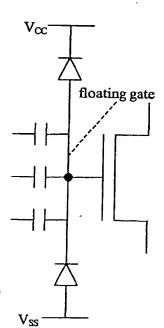
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLOATING GATE TRANSISTORS



(57) Abstract: A floating gate MOS transistor comprises one or more control gates, an active channel, and at least one floating gate disposed between the control gate(s) and the active channel. First and second non-linear resistances couple the floating gate to first and second control voltage sources respectively, the non-linear resistances forming a voltage divider network which sets the operating voltage of the floating gate.